

2012-2013 Achievement Summary Profile

As of: 9/23/2013 10:10 AM EST

Physics, Math Physics, Phys Sci., B.S.

Targets Without Findings

Measure 1: Problem-solving tests and homework

Outcome/Objective 1: Recognize and apply fundamental physical principles

Goals:

1: Understand fundamental laws and concepts in field

Target: Our initial objective was to have 80% of students achieve 80% success in solving each problem. Problems are primarily exercises in applying physical principles to specific applications.

Measure 1: Problem-solving tests and homework

Outcome/Objective 2: Solve standard problems in fundamental subjects

Goals:

1: Understand fundamental laws and concepts in field

3: Perform accurate computations

Target: The majority of test problems are "standard" in that their variant forms are used in local and national placement exams including MCAT, GRE, and graduate program qualifying exams. We choose 80% success in each standard problem for 80% of the students as our initial targets.

Measure 1: Problem-solving tests and homework

Outcome/Objective 5: Respond effectively to qualitative questions

Goals:

1: Understand fundamental laws and concepts in field

2: Communicate scientific work effectively

4: Be prepared for transition to a career in field

Target: A small subset of exam questions are qualitative. Most of these are addressed in the introductory University Physics course. Here we held to our criterion of 80% success in 80% of these questions

Measure 1: Problem-solving tests and homework

Outcome/Objective 7: Perform computer-assisted calculations

Goals:

3: Perform accurate computations

4: Be prepared for transition to a career in field

Target: A small subset of exam questions are qualitative. Most of these are addressed in the introductory University Physics course. Here we held to our criterion of 80% success in 80% of these questions

Measure 2: Laboratory reports and instructor assessments

Outcome/Objective 3: Demonstrate proficiency in laboratory procedures

Goals:

1: Understand fundamental laws and concepts in field

4: Be prepared for transition to a career in field

Target: For 80% of students in laboratory: Complete the required laboratory reports and receive an average laboratory grade of 80% or higher.

Measure 2: Laboratory reports and instructor assessments

Outcome/Objective 4: Write accurate and analytical laboratory reports

Goals:

2: Communicate scientific work effectively

3: Perform accurate computations

Target: For 80% of students in laboratory: Complete the required laboratory reports and receive and average laboratory grade of 80% or higher.

Measure 2: Laboratory reports and instructor assessments

Outcome/Objective 6: Present effective oral and written reports

Goals:

- 1: Understand fundamental laws and concepts in field
- 2: Communicate scientific work effectively
- 4: Be prepared for transition to a career in field

Target: For 80% of students in laboratory: Complete the required laboratory reports and receive and average laboratory grade of 80% or higher.

Measure 2: Laboratory reports and instructor assessments

Outcome/Objective 7: Perform computer-assisted calculations

Goals:

- 3: Perform accurate computations
- 4: Be prepared for transition to a career in field

Target: For 80% of students in laboratory: Complete the required laboratory reports and receive and average laboratory grade of 80% or higher.

Measure 2: Laboratory reports and instructor assessments

Outcome/Objective 8: Be able to model physical systems

Goals:

- 3: Perform accurate computations

Target: For 80% of students in laboratory: Complete the required laboratory reports and receive and average laboratory grade of 80% or higher.

Measure 3: Notify and support applicants for summer research

Outcome/Objective 9: Explore and report career options

Goals:

- 4: Be prepared for transition to a career in field

Target: Consider all notifications of summer research opportunities on the physics bulletin boards and discuss these with the physics advisor. (Confirmed by advisor.) Superior international students will apply for GAAP summer research funding opportunities at SJU. (Confirmed by advisor.) Eligible students seek recommendations for all summer research opportunities. (Confirmed by advisor.) Past recipients speak about their research experiences at meetings of the Society for Physics Students. (Confirmed by faculty liaison with SPS)

Measure 3: Notify and support applicants for summer research

Outcome/Objective 10: Explore & report opportunities for training

Goals:

- 4: Be prepared for transition to a career in field

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Measure 3: Notify and support applicants for summer research

Outcome/Objective 11: Determine possible future options in field

Goals:

- 4: Be prepared for transition to a career in field

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recommendations for all summer research opportunities. (Confirmed by advisor.) Past recipients speak about their research experiences at meetings of the Society for Physics Students. (Confirmed by faculty liaison with SPS)

Measure 4: Conduct meetings for Society for Physics Students

Outcome/Objective 8: Be able to model physical systems

Goals:

3: Perform accurate computations

Target: SPS members will meet during Activity Hour twice each month.(Confirmed by faculty liaison with SPS)  
Students will be self-governing and will elect officers. Students will invite speakers on topics of interest to themembership. (Confirmed by faculty liaison with SPS)

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Measure 5: Develop and conduct sophomore seminar

Outcome/Objective 1: Recognize and apply fundamental physical principles

Goals:

1: Understand fundamental laws and concepts in field

Target: Students will participate in a one-credit sophomore seminar.

Measure 5: Develop and conduct sophomore seminar

Outcome/Objective 9: Explore and report career options

Goals:

4: Be prepared for transition to a career in field

Target: Students will participate in a one-credit sophomore seminar.

Measure 5: Develop and conduct sophomore seminar

Outcome/Objective 10: Explore & report opportunities for training

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Measure 5: Develop and conduct sophomore seminar

Outcome/Objective 11: Determine possible future options in field

Goals:

4: Be prepared for transition to a career in field

Target: Students will participate in a one-credit sophomore seminar.

# St. John's University

As of: 9/23/2013 10:11 AM EST

## 2012-2013 Data Entry Status Overview

This report shows Data Entry Status based on Draft/In-Progress vs. Final status determined by users. To get a more complete picture of remaining work, also run Audit reports for the sections of interest.

### Status Overview for Academic Entities

	<b>Final</b>	<b>In-Progress</b>	<b>None</b>
<b>Mission / Purpose</b>	1 (100%)	0 (0%)	0 (0%)
<b>Goal (if used)</b>	1 (100%)	0 (0%)	0 (0%)
<b>Outcome/Objective</b>	1 (100%)	0 (0%)	0 (0%)
<b>Measure</b>	1 (100%)	0 (0%)	0 (0%)
<b>Target</b>	1 (100%)	0 (0%)	0 (0%)
<b>Finding</b>	0 (0%)	0 (0%)	1 (100%)
<b>Action Plan</b>	0 (0%)	1 (100%)	0 (0%)
<b>Analysis Question</b>	0 (0%)	0 (0%)	1 (100%)
<b>Annual Report Section</b>	0 (0%)	0 (0%)	1 (100%)